CLAIMS

1. An ozone generation method characterized in that oxygen gas including moisture of 0.05 - 40 ppm is supplied to an ozonizer of an electric discharge type as source gas for ozone generation.

2. An ozone generation method characterized in that moisture is added to oxygen gas when the oxygen gas is supplied to an ozonizer of an electric discharge type as source gas for ozone generation.

3. An ozone generation method as claimed in Claim 2, wherein the moisture is added to the oxygen gas so that the moisture volume in the oxygen gas supplied to the ozonizer is within the range of 0.05 - 40 ppm.

4. An ozone generation method as claimed in Claims 1 or 2, wherein the oxygen gas used has a high purity of at least 99.9%.

5. An ozone generation method as claimed in Claims 1 or 2, wherein ozone gas generated by the ozonizer is used for the manufacturing of a semiconductor.

6. An ozone generation method as claimed in Claims 1 or

2, wherein ozone gas generated by the ozonizer has a high density of at least 60 g/Nm^3.

7. An ozone generation apparatus characterized in comprising:

an ozonizer of an electric discharge type;

a gas supply system, the gas supply system supplying an ozonizer with source gas; and

a moisture adjusting device interposed in the gas supply system, the moisture adjusting device adjusting moisture volume in the source gas.

8. An ozone generation apparatus as claimed in Claim 7, wherein the moisture adjusting device is a humidifier, the humidifier adding the moisture to the source gas.

9. Source gas for ozone generation made of oxygen gas including moisture of 0.05 - 40 ppm.

10. A humidifier for adding moisture to oxygen gas supplied to an ozonizer of an electric discharge type as source gas for ozone generation, characterized in comprising:

a water tank containing pure water; and

a resin tube dipped in the pure water in the water tank, the resin tube distributing the oxygen gas therein.

11. A humidifier as claimed in Claim 10, wherein the resin tube has moisture permeability.

12. A humidifier as claimed in Claim 10, wherein a heater is provided, the heater controlling a temperature of the pure water in the vessel.

13. A humidifier as claimed in Claim 10, wherein an agitator is provided, the agitator agitating the pure water in the vessel.

14. A humidifier for adding moisture to oxygen gas supplied to an ozonizer of an electric discharge type as source gas for ozone generation, characterized in comprising:

a tube assembly comprised of a plurality of resin tubes bound together; and

a vessel containing pure water together with the tube assembly.

15. A humidifier as claimed in Claim 14, characterized in that the tube assembly has an entire length longer than an entire length of the vessel and is contained in the vessel in a bending and meandering state.

16. A humidifier as claimed in Claim 14, wherein the vessel is configured to distribute the pure water therein.

17. A humidifier for adding moisture to oxygen gas supplied to an ozonizer of an electric discharge type as source gas for ozone generation, characterized in comprising,

a means for adding pure water to the oxygen gas distributed through a pipe.

18. A humidifier for adding moisture to oxygen gas supplied to an ozonizer of an electric discharge type as source gas for ozone generation, characterized in comprising;

a vessel for containing pure water;

a means for distributing the oxygen gas into the pure water or a space in the vessel.